S/081/61/000/005/006/024 B110/B205

AUTHORS:

Gurvich, L. Ya., Khvoshchevskaya, K. A.

TITLE:

Rapid method of determining the tendency of stainless steel to intercrystallite corrosion

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 5, 1961, 348, abstract 5M285 (5I285) ("Mezhkristallitn. korroziya i korroziya metallov v napryazh. sostoyanii." (Interorystallite Corrosion and Corrosion of Metals in Stressed State) M., Mashgiz, 1960, 162-177)

TEXT: A rapid method is suggested for testing stainless steel for tendencies to intercrystallite corrosion in a solution of 20 % HNO₃+1% NaF at about 20°C. [Abstracter's note: Complete translation.]

Card 1/1

DMITRIYEV, S.I., gornyy insh.; MILOVANOV, I.B., gornyy insh.; KHVOSHCHEVSKIY, H.M., gornyy insh.

Using hydraulic mining methods and flexible roof support in the experimental working of the "Hoshchnyi" seam in the "Ziminka" Mine no.3-4. Ugol' 35 no.9:6-9 5 '60. (MIRA 13:10)

1. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut i Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut dobychi uglya gidravlicheskim sposobom.

(Kuznetsk Basin-Hydraulic mining)

(Mine timbering)

ZHABIN, G.I., inzh.; KHVOSHCHEVSKIY, N.M., inzh.

Arched shields used for the hydraulic mining of thin, steeply pitching seams. Trudy VNIIGidrouglia no.2:19-27 '63. (MIRA 17:6)

1. Sibirskiy metallurgicheskiy institut (for Zhabin).

2. Vsesoyuznyy nauchno-issledovatel*skiy i proyektno-konstruktorskiy institut dobychi uglya gidravlicheskim sposobom (for Khvoshchevskiy).

TEODOROVICH, B.A., kand.tekhn.nauk; KHVOSHCHEVSKIY, N.M., inzh.; SAL'NIKOV, V.R., inzh.; ZAPREYEV, S.I., inzh.

Sublevel hydraulic coal breaking system with powered collapsible metal supports and their mechanized assembly in the erection area. Trudy VNIIGidrouglia no.1:25-32 '62. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut dobychi uglya gidravlicheskim sposobom (for Teodorovich, Khvoshchevskiy, Sal'nikov). 2. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut (for Zapreyev).

KHVOSHCHEVSKIY, N.M.; LITVINENKO, A.S.

System of sublevel hydraulic breaking using flexible metal coverings in the "Koksovaya-1" Mine. Ugol' 40 no.1:24-27
Ja '05. (MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut dobychi uglya gidravlicheskim spesobom (for Khvoshchevskiy). 2. Trest Prokop'yevskugol' (for Litvinenko).

290

ELERT, G.K., gornyy inzh.; YAKOVLEV, Yu.P., gornyy inzh.; KHVOSHCHEVSKIY, N.M., gornyy inzh.; KOVALEV, V.M., gornyy inzh.

New blasting method for caving the roof in longwalls and layers. Ugol' 39 no.10:13-17 0 '64. (MIRA 17:12)

1. VzryvPFU kombinata Kuzbassugoli.

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9828-66 To ()/ENA(h) SOURCE CODE: UR/0104/65/000/005/0093/0093 ACC NRI AP6003970 AUTHOR: Sarkisov, M. A.; Rokotyan, S. S.; Uspenskiy, B. S.; Sharov, A. N.; Zhulin, I. V.; Fedoseyev, A. M.; Korolev, M. A.; Kheyfita, M. E.; Yermolenko, V. M.; Petrov, S. Ya.; Azar'yev, D. I.; Krikunchik, A. B.; Polyakov, I. P.; Sazonov, V. I.; Khvoshchingkaya, Z. G.; Kartsev, V. L.; Smelyanskaya, B. Ya.; Kozhin, A. N.; Losev, S. B.; Dorodnova, T. N.; Rubinchik, V. A.; Smirnov, E. P.; Rudman, A. A. 50 ORG: none 的 TITLE: Abram Borisovich Chernin SOURCE: Elektricheskiye stantsii, no. 5, 1965, 93 TOPIC TAGS: electric engineering, electric engineering personnel ABSTRACT: An engineer since 1929, A. B. Chernin has worked for years in developing new techniques and equipment for relay protection of electric power systems. In this 60th birthday tribute, he is credited with leading the group which produced the directives on relay protection, contributing to the development of a method for calculating transient processes in long distance 400-500 kv power transmission lines and with aiding in planning of the electric portions of power stations, substations and power systems. The results of his engineering and scientific work have been published 46 times, he is a doctor of technical sciences (since 1963), and has taught for 30 years at the Moscow Power Institute. Orig. art. has: 1 figure. SUB CODE: 09 / SUBM DATE: none HW

SOKOLOV, N. I., doktor tekhn.nauk (Moskva); GUREVICH, Yu. Ye., inzh. (Moskva); KHVOSHCHINSKAYA, Z.G., inzh. (Moskva)

Use of analog computers in studying the parallel operation of large turbogenerators. Elektrichestvo no.10:5-13 0 '63. (MIRA 16:11)

GUREVICH, Yu.Ye., inzh.; KHVOSHCHINSKAYA, Z.G., inzh.

Modeling of synchronous machines using electronic analog computers. Trudy VNIIE no.15:72-96 *63. (MIRA 16:12)

SOKOLOV, N.I., kand.tekhn.nauk, dotsent (Moskva); GUREVICH, Yu.Ye., inzh. (Moskva); KHVOSHCHINSKAYA, Z.G., inzh. (Moskva)

Use of analog computers for simulating a system with multiple generators. Elektrichestvo no.5:1-8 My '61. (MIRA 14:9)

(Electric notwork analyzers)
(Electric power distribution)

GUREVICH, Yu.Ye., inzh.; KHVOSHCHINSKAYA, Z.G., inzh.

Concerning an assumption in static stability calculations. Izv. vys. ucheb. zav.; energ. 7 no.3:1-9 Mr '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektroenergetiki (for Gurevich). 2. Moskovskiy ordena Lenina energeticheskiy institut (for Khvoshchinskaya).

KHVCGHCHINSKIY, A.V.; RCZENISVEYG, V.S.

Mechanization and automation of the charging of slag-forming and alloying materials into electric furnaces. Stall 25 no.8: 813-818 S 165. (MIRA 18:9)

1. Gosudarstvennyy soyuznyy institut po proyektirovaniyu metallurgicheskikh zavedov.

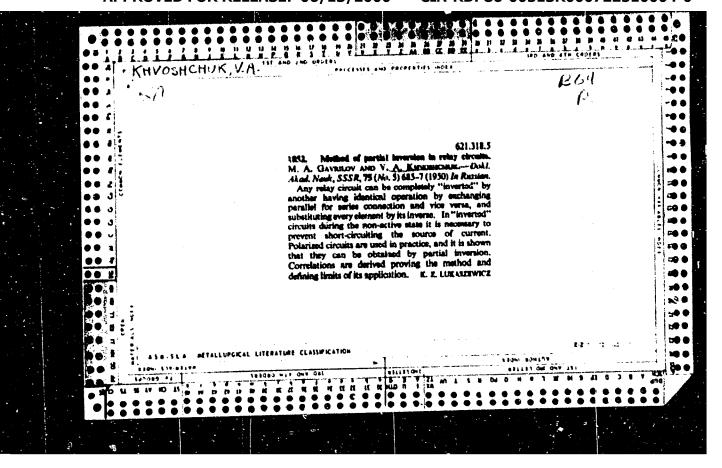
BIRYUKOV, V.A., kand. tekhm. nauk; KHVCSHCHINSKIY, M.I., inzh.

Practical testing of high-temperature lumber kilns made by the State Latian Design and Planning Scientific Research Institute. Der. prom. 13 no.12:22-10 D '64 (MIRA 18:2)

KHVOSHCFINSKIY, N.V., inzh.; GUBINA, N.I., inzh.

Engineering protection in the reservoir area. Energ.stroi. no.23: 86-95 '61. (MIRA 15:1)

1. Ispolnyayushchiy obyazannosti glavnogo inzhenera stroitel'stva Kremenchugskoy gidroelektrostantsii (for Khvoshchinskiy). 2. Rukovoditel' gruppy proizvodstvenno-tekhnicheskogo otdeleniya stroitel'stva Aremenchugskoy gidroelektrostantsii (for Gubina). (Kremenchug Hydroelectric Power Station--Hydraulic structures)



<u>L 5426-66</u> EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG

ACCESSION NR: AP5019771

UR/0051/65/019/002/0303/0306

539.184.26 : 546.36

56

AUTHOR: Kallas, Kh.; Markova, G.; Khvostenko, G.; Chayka, M.

TITIE: Determination of the hyperfine structure constants of cesium from the crossing of magnetic sublevels

SOURCE: Optika i spektroskopiya, v. 19, no. 2, 1965, 303-306

TOPIC TAGS: cesium, hyperfine structure, spectral line, spectral energy distribution, Zeeman effect

ABSTRACT: This is a continuation of earlier work (Opt. i spektr. v. 17, 319, 1964) and is devoted to a more precise measurement of the magnetic fields for the crossing of the Zeeman sublevels of the 7 $^{3}P_{1/2}$ state in cesium, and to similar measurements for the 6 $^{2}P_{3/2}$ level. The magnetic field was produced by a pair of Helmholz coils with constant $C = 17.77 \pm 0.01$ Oe/amp, the coil axes being directed along the horizontal component of the earth's magnetic field. The vertical component was offset by supplementary coils. Three level crossings each were observed for $7 \, ^{3}P_{1/2}$ and for $5 \, ^{2}P_{3/2}$. Expansion coefficients for the three level-crossing fields are calculated and tabulated. They agree with the published data for both $7 \, ^{3}P_{1/2}$ and $6 \, ^{2}P_{3/2}$. Orig. art. has: 9 formulas and 1 table.

Card 1/2

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L 5426-66

ACCESSION NR: AP5019771

ASSOCIATION: none

SUBMITTED: 12Feb65

NR REF SOV:

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SUB CODE: OF

JB CODE:

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KHVOSTENNO, GI

AUTHORS

Ioffe, V.A., Khvostenko, G.I.,

57 - 9-10/40

Zonn, Z.N.

TITLE

The Electrical Properties of Some Single Crystals and

Polyorystalline Ferrites.

(Elektricheskiye svoystva nekotorykh monokristallov i

polikristallicheskikh ferritov.)

PERIODICAL

Zhurnal Tekhn. Fis., 1957, Vol. 27, Nr 9, pp.1985-1995

(USSR)

ABSTRACT

The dependence of the specific resistance, of the dielectricity constant, and of the angle of dielectric losses on temperature at sound frequencies and for solid

solutions of nickel-ferrite and zino-ferrite, of

magnesium-ferrite and manganese-ferrite as well as in the case of two single crystals and a ceramic sample of a solid solution of cobalt-ferrite and zino-ferrite was investigated. All ferrites investigated have a high

dielectricity constant within the range of low frequencies and high temperatures. The dependence of the dielectricity constant on frequency and temperature is due to relaxation processes. It is shown that the dielectricity constant of ferrites is a property that is independent of their poly-

CARD 1/2

AUTHORS:

Ioffe, V. A., Khvostenko, G. I.

20-118-4-23/61

TITLE:

The Anomalous Dispersion of the Dielectric Constant in Feldspars (Anomal'naya dispersiya dielektricheskoy

pronitsayemosti v polevykh shpatakh)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 4,

np. 709-712 (USSR)

ABSTRACT:

At first, the authors shortly report on the development of this problem. The present paper investigates the dielectric

loss angle and the dielectric constant of potassium feldspar (orthoklase) and of sodium feldspar (albite) within the temperature range of from 20 to 500°K and within the range of frequencies of from 500 kilocycles to 5 Megacycles, The measurements were performed in vacuo, after the sample was heated to 500°K in an evacuated bell. The electrodes were applied by means of burning-in a silver paste. Measurements were conducted with a bridge circuit. A diagram illustrates the temperature dependence of

tg & and & in orthoklase for frequencies of 8.105 and

Card 1/4

8.104 cycles. The value of tg δ is very small in orthoklase

The Anomalous Dispersion of the Dielectric Constant in 20-118-4-23/61 Feldspars

at temperatures of from 20 to 500° K ($\sim 5.10^{-4}$) and is little dependent upon temperature .- The dielectric constant retains its constant value of E = 6. From 200°K onwards tg δ and ξ begin to increase sharply with growing temperature, tg δ increasing by about two orders of magnitude. If the temperature is further raised, tg & remains constant. A sharp increase of & is also observed within the same temperature range. A second diagram illustrates the frequency dependence of tg and & in orthoklase at the temperatures 297°K, 399°K and 246°K. The maximum of tg δ at all three temperatures is found at the frequency $\sim 4.5 \cdot 10^5$ cycles. The frequency of the maximum is independent from temperature. A second, wider maxiumum is observed at a frequency of 2.106 cycles at a temperature of 297°K. Further numerical data are given. The dielectric constant decreases within the range of low frequencies at all temperatures investigated, when the frequency is increased, then passes through a maximum at the frequency of 2.105 cycles, and through a low minimum at 4.5.105 cycles. Then the dielectric constant increases again

Card 2/4

The Anomalous Dispersion of the Dielectric Constant in 20-118-4-23/61 Feldspare

up to a value of $\sim 6,3.10^5$ cycles. A further diagram illustrates the temperature dependence of tg & and of & in albite at the frequencies 8.105 and 8.104 cycles. This temperature dependence shows the same character as in orthoklase. Similar dependences were also obtained by the authors for plagicklase, which consists of a solid solution of sodium- and potassium feldspars. An anomalous dispersion of £ also exists in plagicklase, the range of dispersion, however, is somewhat lower, within the frequency range of \sim 105 cycles. The here obtained temperature dependences of tg δ and of E in feldspars can neither be explained by conduction processes, nor by relaxation processes. This also holds for the temperature dependence of tg &. Such a temperature dependence can obviously be explained by resonance phenomena. The resonance phenomena observed in feldspars are obviously caused by electron There are 4 figures, and 2 references, 1 of which is Soviet.

card 3/4

CIA-RDP86-00513R000722510004-0" **APPROVED FOR RELEASE: 06/13/2000**

The Anomalous Dispersion of the Dielectric Constant in 20-118-4-23/61 Feldspars

Institut khimii sirikatov Akademii nauk SSSR ASSOCIATION: (Institute for Silicate Chemistry, AS USSR)

August 19, 1957, by A. F. Ioffe, Member of the Academy

August 16, 1957 SUBMITTED:

Library of Congress AVAILABLE:

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KHYOSTEMKO, G. 1

Editorial Escrit A.I. Avgastinik, V.P. Barakovakly, R.A. Felorislov, O.K. Fervinkin, V.V. Vangin, A.G. Vlacov, K.A. Erichy, R.A. Extreyer, V.S. V.V. Vangin, A.G. Vlacov, K.A. Estreyer, V.S. Holmany, R.L. Mylley, Ye.A. Pormy-Eastley, Chairers, N.A. Toropye, V.A. Rioriakway, R.L. Mylley, Ye.A. Pormy-Eastley, Chairers, N.A. Toropye, V.A. Yloriakway, V.A. Savorov; Tech. Eds.: V.T. Botherer.

This book is intended for researthers in the actence and technology of

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APPROVED FOR RELEASE: 06/13/2000

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AUTHORS:

TITLE:

Ioffe, V. A., Khvostenko, G. I.

To suppose the second property of the State of

Electrical Conductivity of Sodium-aluminum-silicate Glasses

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 3, pp. 509-516

TEXT: The authors investigated the electrical conductivity of glasses of the system Na₂O . x Al₂O₃.(y-x) SiO₂ with y = 2,3,4, and 6 and x from O to 1.1. The aim of the present investigations was to find out whether a second type of charge carrier exists in these glasses (it has been assumed already earlier that the electrical properties of these glasses are not only determined by ionic but also by electronic processes). They also wanted to investigate the dependence of conductivity on the Na₂O content and the structure at very low temperatures and in the range 15 - 240°C. The composition of the glasses investigated is given in a Table (p. 510). Conductivity was measured electrometrically (Fig. 1), the apparatus made it possible to measure currents of down to 10-14a; voltage sensitivity was 10-3v/graduation. All measurements were made in vacuum,

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81364

Electrical Conductivity of Sodium-aluminum-silicate Glasses

S/181/60/002/03/22/028 B006/B017

after a continuous heating of the sample at 250°. Since the initial amperage could not be measured, the time dependences of "charge" and "discharge" of the sample were determined and then extrapolated for t = 0 both graphically as well as by computation. Figs. 2 - 5 show logo = f(1/T) of four series of glasses. The following results were obtained: The electrical conductivity in the glasses investigated does not depend on the Na₂O content; it is determined by the ratio between the number of the aluminum-oxygen tetrahedra and the number of silicon-oxygen tetrahedra in the structural lattice, i.e., by Al/Si. With increasing Al/Si, electrical conductivity increases, whereas the activation energy U and the number of carriers decreases. The electrical conductivity of two glasses may be expressed by the formula $\sigma = \sigma_0 \exp(-U_1/kT) + \sigma_0' \exp(-U_2/kT)$ which

indicates that in these glasses two types of carrier exist. The authors assume that in the second type electrons are concerned. The resulting dependence of σ , U, and σ_0 on the composition (Figs. 7 - 10) may be explained by a change of the ratio of the fractions of ionic and electronic conduction in these glasses. N. M. Verebeychik and V. I. Odilevskiy are mentioned. There are 10 figures, 1 table, and 4 references:

Card 2/3

· Electrical Conductivity of Sedium-aluminumsilicate Glasses

81,364 S/181/60/002/03/22/028 B006/B017

3 Soviet and 1 Swiss.

ASSOCIATION: Institut khimii silikatov AN SSSR Leningrad (Institute of

Silicate Chemistry of the AS USSR, Leningrad)

SUBMITTED:

June 4, 1959

Card 3/3

KHVOSTENKO, N.M.; CHZHAN VYE-GAN; ROGOVIN, Z.A.

New method of preparing cellulese materials possessing water-repellent properties. Zhur.prikl.khim. 34 no.3:656-659 Mr '61. (MIRA 14:5)

1. Moskovskiy tekstil'nyy institut. (Cellulose)

ROGOVIN, Z.A.; SUN' TUN [Sun' T'ung]; VIRNIK, A.D.; KHVOSTENKO, N.M.

Synthesis of new derivatives of cellulose and other polysaccharides. Part 19: Synthesis of cellulose graft copolymers and carbochain polymers without a simultaneous formation of homopolymers.

Vysokom.soed. 4 no.4:571-576 Ap '62. (MIRA 15:5)

1. Moskovskiy tekstil'nyy institut.
(Cellulese) (Polymerization)

KHVOSTENKO

AUTHORS:

Khvostenko, V. I., Dukel'skiy, V. M.,

56-4-4/54

TITLE:

The Formation of Negative H-ions when Electrons Collide with Hydrogen Molecules (Obrazovaniye otritsatel nykh ionov H-pri stolknoveniyakh elektronov s molekulami vodoroda)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 4, pp. 851--855, (USSR)

ABSTRACT:

The experiments were carries out with a mass spectrometer, where the steam of ions was measured by a multiplier. This latter had a multiplication factor of 1000 for H-ions of 1000 eV. Attention was paid to special purity of the H2-gas. A narrow maximum at 14,5 eV may be seen from the curve showing the dependence of the yield of H-ions on the energy of the electrons. This maximum is to be attributed to a resonance trapping of the electrons by the H2-molecules. The formation of H-ions at nigher electron energies is probably to be traced to the fact that the H2-molecules are dissociated into positive and negative ions by the electron bombardment. There is 1 figure.

ASSOCIATION: Leningrad Physico-Technical Institute AN USSR (Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR)

SUBMITTED:

April 23, 1957

AVAILABLE:

Library of Congress

Card 1/1

KVOSTENKO, V. I. and DUKELSKIY, V. M. Prof. Leningrad Phys. Tech. Inst.

"Formation of Hydrogen Negative Ions on Collisions with Hydrogen Molecules,"

Paper presented by Dukelskiy at Conf. on Physics of Electronic & Atomic Collisions

New York University, 27 -28 Jan 1958.

B - 3, 102, 929

AUTHOLU

Khvostenko, V.I., Dukei skiy, V.M.

56-34-4-50/60

TITLE:

The Negative Ion H_2 (Otritsatel nyy ion H_2)

PERIODICALS

Zhurnal eksperimental noy i teoreticheskoy fiziki 1958, Vol. 34, Nr 4, pp. 1026 - 1027 (USSR)

ABSTRACT:

As far as the authors know the negative ion H2 has as yet nowhere been observed. The authors tried to ascertain the existence of such ions, using the method of "Re-charging" for this purpose. Steum and antimony vapors were at the same time introduced into the ion source and were exposed to the action of an electron beam $(O_{\nu}3$ milliamperes, 80 eV). The negative ions formed were analyzed by means of a mass spectrometer equipped with an electron multiplier tube. In the presence of steam in the ion source the ions H 0 and OH were observed. In the subsequent introduction of antimony vapors to the source the ions Sb Sb2 and Sb3 additionally occur as well as at the same time negative ions

of the mass 2. In the spectrum of the real and the were

Card 1/2

The Negative Ion H2

56-34-4-50/60

determined which correspond to the mass numbers 0,5; 3 and 6. These maxima must be attributed to fraction-ions which were formed during the dissociation of the primary ions. The maxima corresponding to the mass numbers 0,5; 3 and 6 could be suppressed by applying a retarding potential of 1500 V to the first diode of the multiplier. The maxima corresponding to the masses 1 and 2 hardly varied at all and were obviously dependent on primary ions formed in the source. All observations tend to show that the observed negative ions of the mass 2 are H₂-ions. There are 4 references, 2 of which are Soviet.

ASSOCIATION:

Fiziko-tekhnicheskiy institut Akademii nauk SSSA (Institute

of Physics and Technology, AS USSR)

SUBMITTED:

January 15, 1958

2. For some by you will proportion

Card 2/2

KHVOSTENKO, V. I.: Master Phys-Math Sci (diss) -- "The formation of negative and positive ions in hydrogen". Leningrad, 1959. 10 pp (Acad Sci USSE, Phys-Tech Inst), 150 copies (KL, No 13, 1959, 100)

21(8),24(3) AUTHORS:

Khvostenko, V. I., Dukel'skiy, V. M. SOV/56-37-3-10/62

TITLE:

The Formation of Negative Hydrogen Ions on the Surface of

Incandescent Tungsten

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959,

Vol 37, Nr 3(9), pp 651-653 (USSR)

ABSTRACT:

For the purpose of determining the electron affinity of the hydrogen atom, the authors investigated the production of H-ions on an incandescent tungsten surface by means of an apparatus, which is shown schematically in figure 1. On the basis of quantum-mechanical calculations this value is given as 0.754 ev in reference 1. By using this value one obtains 6.10^{-9} for the probability of an accepture of an electric 1.

6·10⁻⁹ for the probability of an α-capture of an electron by a hydrogen atom which evaporates on a tungsten surface at 2400°K (work function of tungsten 4.5 ev). The H-ions may not only form on the cathode but also in the surrounding space 1) by electron impact, either from H₂ or also from H₂O.

2) by radiation capture of slow electrons by hydrogen atoms; the latter are formed on the dissociation of hydrogen molecules on the incandescent tungsten surface. The authors have

Card 1/3

The Formation of Negative Hydrogen Ions on the Surface of Incandescent Tungsten

SOV/56-37-3-10/62

already shown (Ref 2) that process 1) does not take place, if the energy of the electrons is smaller than 5 ev. Figure 2 shows the measured dependence of the ratio $I_{\rm ion}/I_{\rm sl}$ on the temperature of the cathode within the range 2200-2900°K (hydrogen pressure $2\cdot 10^{-4}\,$ Hg, $V=3.0\,$ v). The H-ion current $I_{\rm ion}$ was of the order of magnitude $10^{-16}\,$ a, the noise level was 10 to 20 times smaller ($I_{\rm el}$ denotes the electron current). The curve shows a maximum at about $2600^{\rm o}$ K. If $\alpha\ll 1$, ion = $E_{\rm no}A$ exp $\left\{E(S-\psi^*)/kT\right\}$ holds for the negative ion current density; $n_{\rm ol}$ denotes the number of atoms evaporated by 1 cm² cathode surface per second. $E_{\rm ol}$ is the effective work function for a polycrystalline surface. $i_{\rm el}$ =BT² exp $\left(-E_{\rm ol}/kT\right)$ holds for the electron current density. By making use of these formulas the electron affinity $E_{\rm ol}$ S of the hydrogen atom may be calculated as amounting to $\left(0.8\pm0.1\right)$ ev. There are 2 figures

Card 2/3

The Formation of Negative Hydrogen Ions on the

SOV/56-37-3-10/62

Surface of Incandescent Tungsten

and 5 references, 3 of which are Soviet.

ASSOCIATION:

Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR (Leningrad Physico-technical Institute of the Academy

of Sciences, USSR)

SUBMITTED:

April 13, 1959

Card 3/3

ACCESSION NR: AP4037571

\$/0056/64/046/005/1605/1607

AUTHORS: Khvostenko, V. I.; Sultanov, A. Sh.

TITLE: Formation of negative aluminum, gallium, indium, and thallium ions by interaction between electrons and the halides of these elements

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1605-1607

TOPIC TAGS: negative ion, ion formation, halide, aluminum, gallium, indium, thallium, mass spectrometer, electron capture

ABSTRACT: The purpose of the investigation was to determine the feasibility of producing negative aluminum, gallium, indium, and thallium ions by interaction between the molecules of halides of these elements with electrons. A magnetic mass spectrometer was used to observe and identify the ions, which were recorded with an open electron multiplier. The negative gallium and indium ions were

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ACCESSION NR: AP4037571

observed for the first time. The negative ions of aluminum, indium, and thallium were produced by resonance capture of the electrons by the molecules, followed by the dissociation of the latter into negative ions and neutral halogen atoms, since they were observed only over a narrow range of electron energies (2--4.5 eV for aluminum, 0--3 eV for indium). The dependence of the negative ion yield on the electron energy was investigated in detail for thallium halides, and the production potentials of thallium ions and other positive and negative ions were carefully determined. The results will be published in a separate communication. "In conclusion, the authors thank Professor V. M. Dukel'skiy for suggesting the problem and directing the work." Orig. art. has: 1 figure.

ASSOCIATION: Institut organicheskoy khimii Bashkirskogo filial Akademii nauk SSSR (Institute of Organic Chemistry, Bashkir Branch, Academy of Sciences SSSR)

Card 2/4 2

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KHVOSTENKO, V.V.; ADAMOV, E.V.

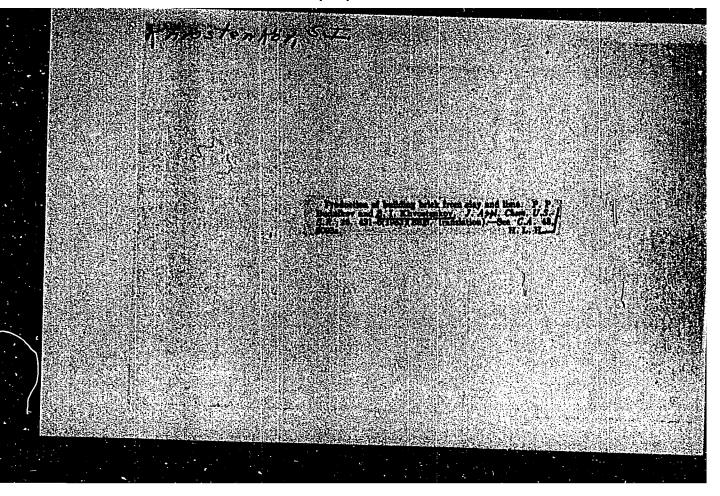
Interfactory schools for the exchange of progressive practices in the field of controlling technological processes in nonferrous metal ore dressing plants. TSvet.met. 35 no.2:79-80 F 162.

(MIRA 15:2)

(Ore dressing-Study and teaching)

KHYOSTENKOV, S.I., inshener.

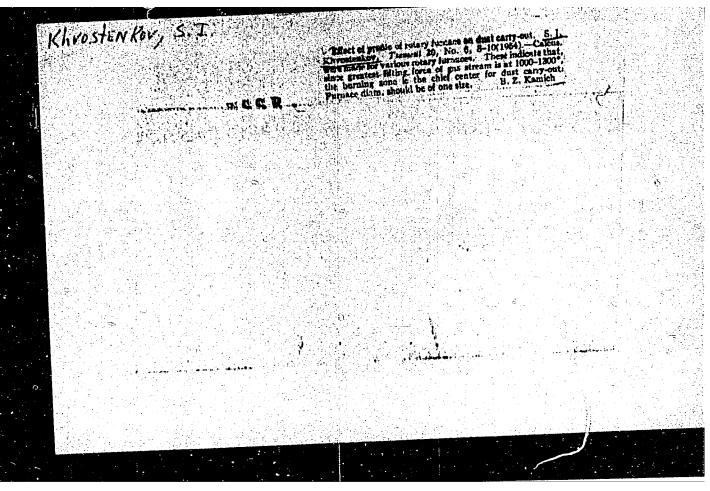
Hew shape of a heat exchanger for a rotary kiln. TSement 19 no.6:22-23 (MLRA 6:12)



APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510004-0"

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Jour. of the Amer. Ceramic Sec. Vol. 37 No. 3 March 1954 Cements, Limes, and Flasters Study of conditions of formation of clay-lime structural materials. P. P. Buddikov And S. I. Khyostichkov. Zhur. Priklad. Khim., 26, 151–457–63 (1953). Various clay-lime specimens were tested by chemical, thermographic, and mechanical methods before and after hydrothermal treatment to determine the effect of technological factors on hardening. Data (tabulated and graphical) are given on chemical composition, dehydration, strength as a function of the temperature of preliminary treatment of clay, strength as a function of steam pressure in the autoclave, strength vs. CaO content in mixtures, strength vs. pressure of shaping, and strength vs. degree of moistening. B.Z.K.



KHVOSTENKOV, S. (g. Kramatorsk); MORDUKHOVICH, M. (g. Kramatorsk); LAPOTNIKOV, V. (g. Kramatorsk).

Colored slate. Stroi.mat., isdel. i konstr. 2 no.2:16 F156.

(MIRA 9:6)

1.Glavnyy inshener tsementnogo savoda (for Khvostenkov).2.Nachal'zik
laboratorii (for Mordukhovich).3.Glavnyy inshener Kramatorskogo
shifernogo zavoda (for Lapotnikov).

(Roofing, Slate)

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	Study of conditions of formation of terials. P. F. Buputrov and S. I. K. in Silbotteck., 6 [4] If I-63 (1980). Abur., 1984, March, p. 459.	My abstract see Cerom. Mother	
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KHVOSTENKOV, S.I., insh.

Choosing the shape of a rotary kiln with regard to the problem of dust disposal. Nauch.scob.MIITSementa no.7:25-30 60. (MIRA 14:5)

1. Institut Sevkavgipropromstrom.
(Kilns, Rotary) (Dust-Removal)

KHVOSTENKOV, S.I.

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(Kilns, Rotary)

KHVCSTENKOV, S. I., Cand. Tech. Sci. (diss) "Investigation of Effect of Physical-chemical Properties of Raw Materials and Some Technological Factors on Dust-catcher of Rotating Cement-Roasting Ovens," Moscow, 1961, 19 pp. (Moscow Chem. Engr. Inst.) 183 copies) (KL Supp 12-61, 276).

KHVOSTENKOV, S.I., inzh.; CHERNOBAYEVA, N.I., inzh.

Utilization of cement dust recovered by electric filters in the manufacture of silicate materials. Stroi.mat. 8 no.3:11-12 Mr '62. (MIRA 15:8)

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KHVOSTENKOV, S.I., inzh.

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(MIRA 15:7)

1. Novorossgiprotsement.

(Cement-Testing)

KHVOSTENKOV, S.I.; CHERNOBAYEVA, N.I. SEMKIN, V.I.

Physicochemical properties and utilization of recovered dust.
TSement 28 no.3:16-17 My-Je '32. (MIRA 15:7)

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(Inst)
(Cement plants)

ANDROSOV, A.A.; KHVOSTENKOV, S.I.; CHERNOBAYEVA, N.I.

Adoption of an experimenta: industrial unit for burning clinker in a fluidizing bel. Sbor.trud. Novorossgiprotsementa no.1:3-16 '61. (MIRA 16:2)

(Cement plants)

KHVCSTENKOV, S.I.

Physicochemical properties of the raw material and choosing a method of producing cemers. Sbor.trud. Novorossgiprotsementa no.1:17-33 61. (MIRA 16:2)

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Study of the chemism of the hardening of autoclaved clay-lime building materials. Sbor.trud. Neverossgiprotsementa no.1:44-54 '61. (MIRA 16:2)

(Building materials—Testing)

KHVOSTENKOV, S.I., kand. tekhn. nauk

Constant or variable profile of rotary kilns? TSement 30 no.1:12-14 Ja-F '64. (MIRA 17:8)

1. Novorcasgiprotsement.

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The IS-2 feed-grinder. Trakt. i sel*khozmash, 32 no.7:27-28 Jl 162.
(MIRA 15:7)
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VERTSMAN, G.Z.; KHVOSTIK, I.F.

Plan for introducing new machinery in surveying railroad lines. Transp.stroi. 10 no.2:4-8 F '60. (MIRA 13:5)

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(Railroads--Surveying)

LYUTS, Aleksandr Fedorovich, prof.; SOROKIN, Vasiliy Pavlovich, dots.; FINKOVSKAYA, Tamara Semenovna, dots.; KOKOVIKHIN, Mikhail Fedorovich, inzh.; KIRILENKO, Vasiliy Sergeyevich, kard. tekhn. nauk; BELIKOV, Ye.F., dots., retsenzent; KHVOSTIK, I.F., red.; KOMAR'KOVA, L.M., red.izd-va; SUNGUROV, V.S., tekhn. red.

[Surveying in railroad engineering]Geodeziia v zheleznodorozhnom dele; spravochnoe posobie. [By] Liutts, A.F. i dr. Moskva,
Geodezizdat, 1962. 342 p. (MIRA 16:1)
(Railroads—Surveying)

23951-66 EWT(d)/EWT(m)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(1) IJP(o) SOURCE CODE: UR/0413/66/000/004/0011/0011 ACC NR. AP6009820 AUTHOR: Sukhorukov, N. A.; Lavrent'yev, V. H.; Khvostik, V. P. ORG: none TITLE: A method for stamping pipes. Class 7, No. 178778 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 11 TOPIC TAGS: pipe, metal stemping, metal pressing ABSTRACT: This Author's Certificate introduces a method for stamping pipes on presses with a single container. The length of the stamping cycle is reduced by using a punch to remove the waste from the pipe at the end of the working stroke of the press. The waste is extracted from the container and cleaned from the punch on the reverse stroke. OTH REF: 000 SUBH DATE: 05Nov62/ ORIG RET: 000/ SUB CODE: 13/ UDC: 621.774.381.7 : 621.774.38.073 2 ا 1/1 دیے

IJP(c) JD/HW EWT(d)/EWT(m)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(l) 23944-66 ACC NR. AP6009821 SOURCE CODE: UR/0413/66/000/004/0011/0011 AUTHOR: Sukhorukov, N. A.; Lavrent'yev, V. H.; Khvostik, V. P. 41 ORG: none B TITLE: A tool for stamping pipes. Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 11 TOPIC TAGS: die, mutal stamping, pipe, metal pressing ABSTRACT: This Author's Certificate introduces a tool for stamping pipes. The unit contains a die with a punch in the center. A stamping cycle is completed on one double stroke of the press. There is a hollow section in the leading end of the die which accommodates a catch on the punch. This catch is used for moving the punch and for cutting off the stamping waste. A section of this catch is turned down on a lathe for picking up the stamping waste on the punch to extract it from the container. The punch can be moved in the die so that there is a gap between the lower end of the tail section of the punch and the end of the hollow in the die where the punch is located. This makes it possible to shift the punch in the axial direction with respect to the die on the reverse stroke of the press so that a device for removing the stamping waste may en ter the press between the catch on the punch and the die. SUB CODE: 13/ SUBH DATE: 05Nov62/ ORIG REF: 000/ 621.774.381.7 : UDC: 621.774.38.073 Cord 1/1 W

ALEKSANDROVICH, G.L., dotsent (Khabarovsk, ul. Kalinina, d.71, kv.19); KHYOSTIKOV, G.F.

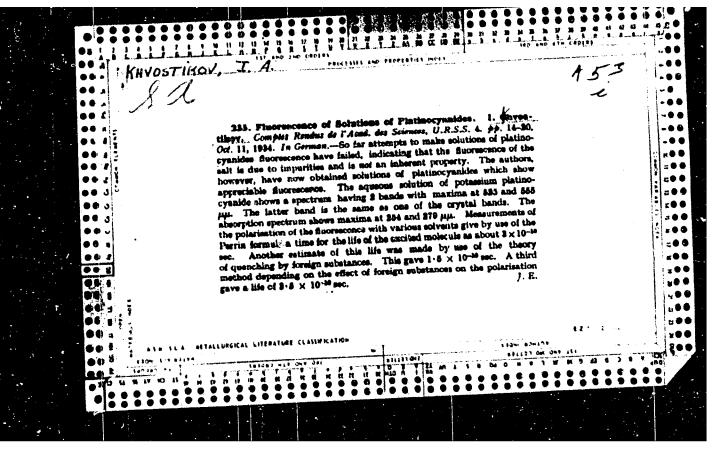
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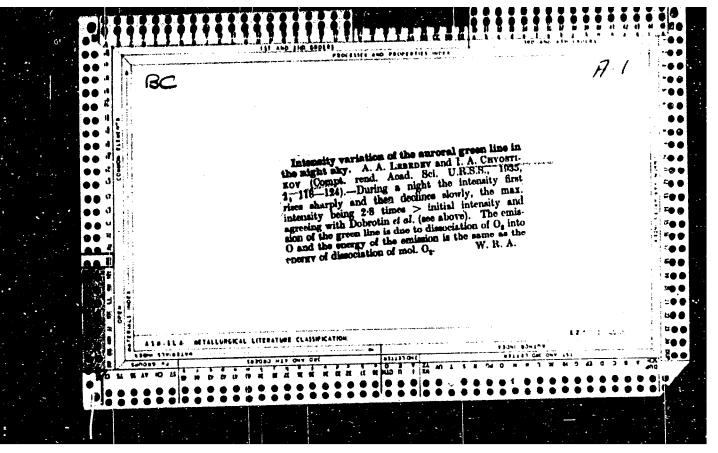
1. Kafedra fakul tetskoy khirurgii Khabarovskogo meditsinskogo instituta.

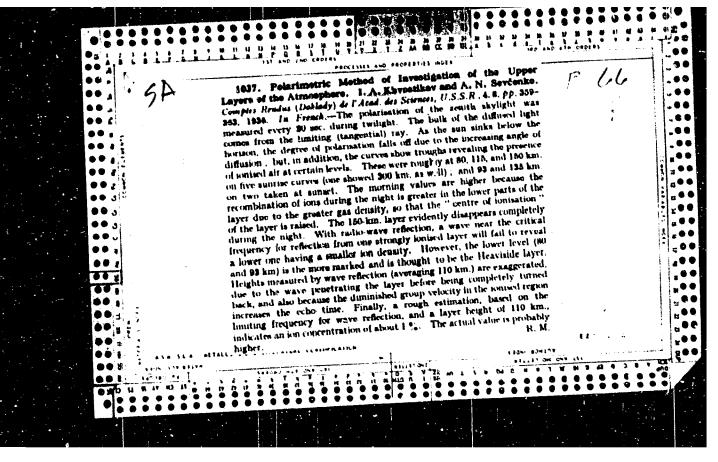
(INTESTINES--TRANSPLANTATION)

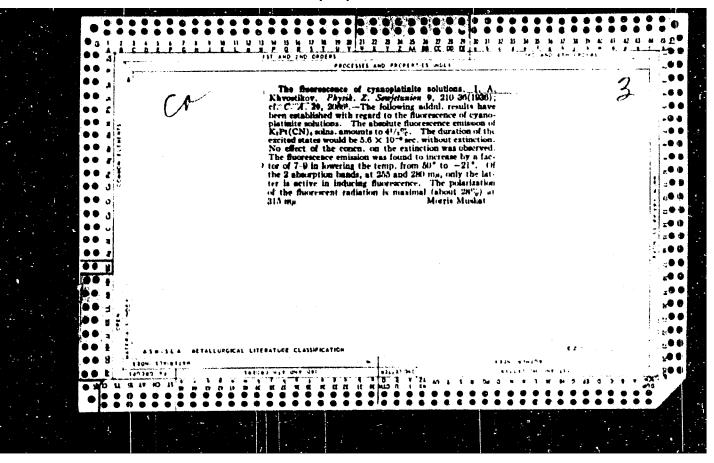
KHVOSTIKOV, G.Ye., inzh.; SEMENKOV, I.L., inzh.

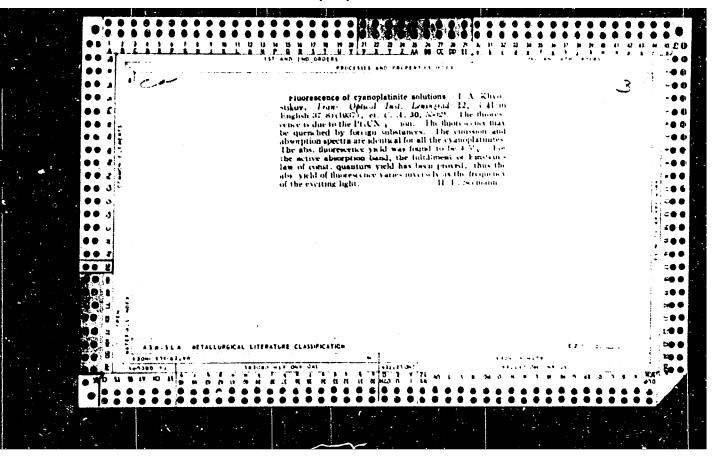
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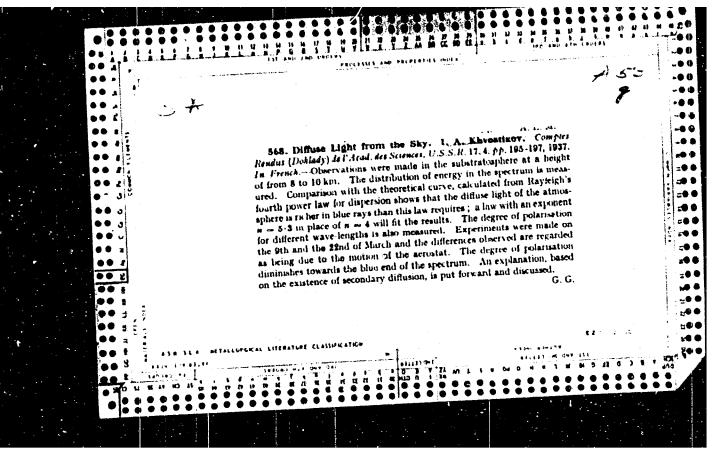


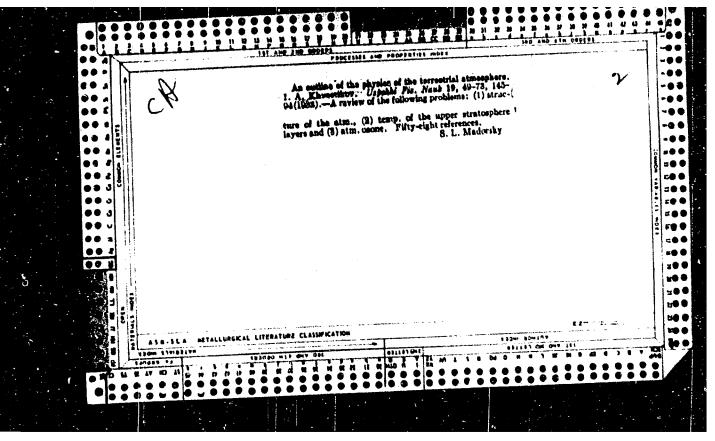






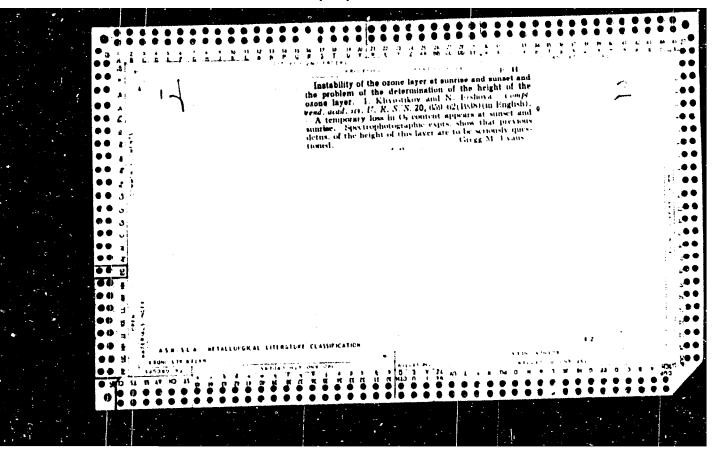






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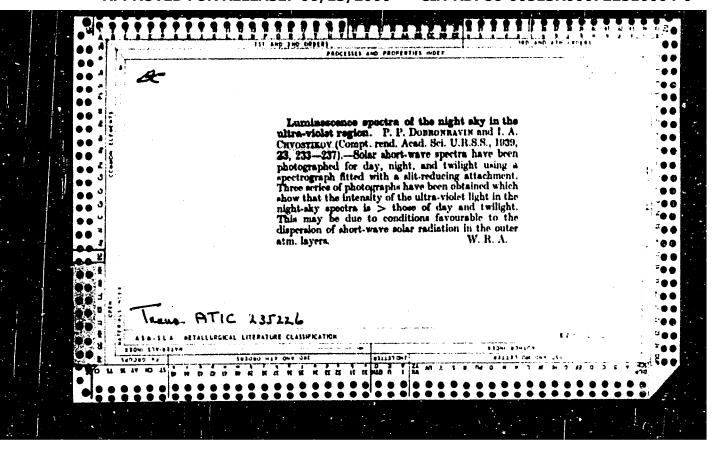
Transation 563845

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Translation 563844



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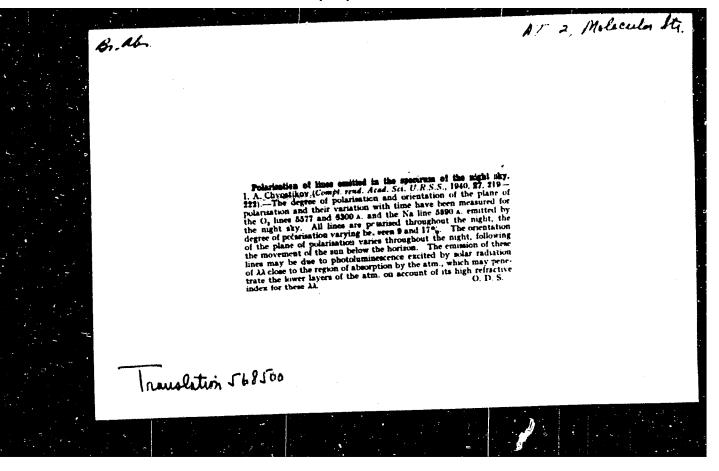
KHVOSTIKOV, I. A., A. YA. DRIVING and PEVUNOVA, O. A.

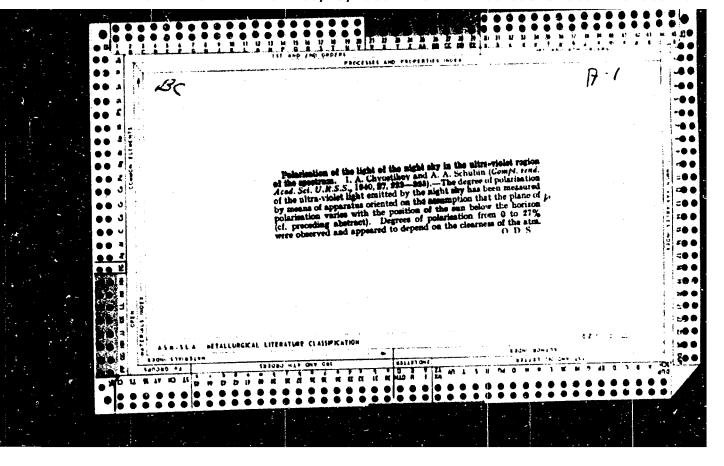
Izmereniye spektral'noy prozrachnosti atmosfery v nochnykh usloviyakh (Investigation of the Spectral Transparency of the Atmosphere at Night). Akademiya Nauk SSSR. Izvestiya. Seriya geogr. i geofiz., 1940, no. 5, p. 685-690, diagrs., Summary in German.

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Observations were made on the polarization of the light scattered by the mist at various angles and on the absorption of light in natural mists. The results do not agree with theoretical values. In order to explain the discrepancy between the observed and the theoretical values a hypothesis is advanced which assumes the presence of "submicroscopic" droplets in the mist or fog.

M.G.Moore

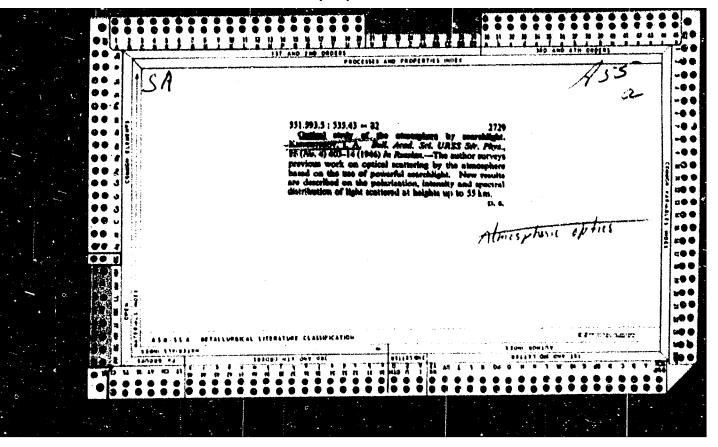
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Lab. of Atmospheric Optics, Inst. of Theoretical Geophysics, AS

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Dal'nost' deystviya prozhektorov i opticheskaya neodnorodnost' atmosfery (Effective Range of Action of Searchlights and the Optic Inhomogeneousness of Atmosphere). Akademiya Nauk SSSR. Izvestiya. Seriya geogr. i Zeofiz., 1945, v. 9, no. 5-6, p. 425-440, diagrs., 5 refs. Summary in English.

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Moscow Inst. Eng. Geodesy, Air-Survey and Cartography

PA 21T114

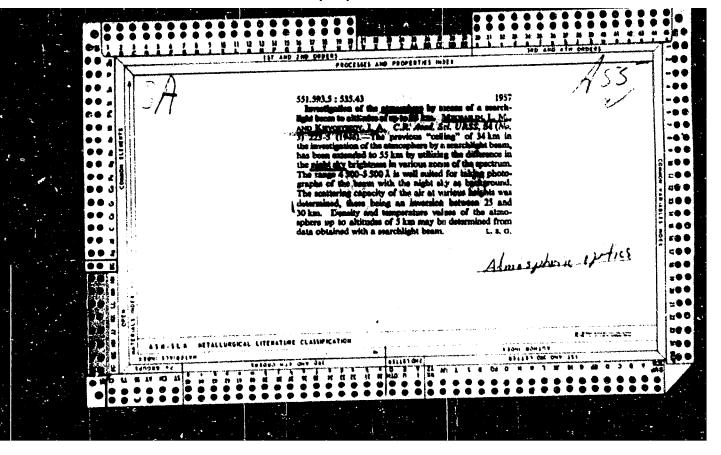
USSR/ Physics Polarization Sep 1946

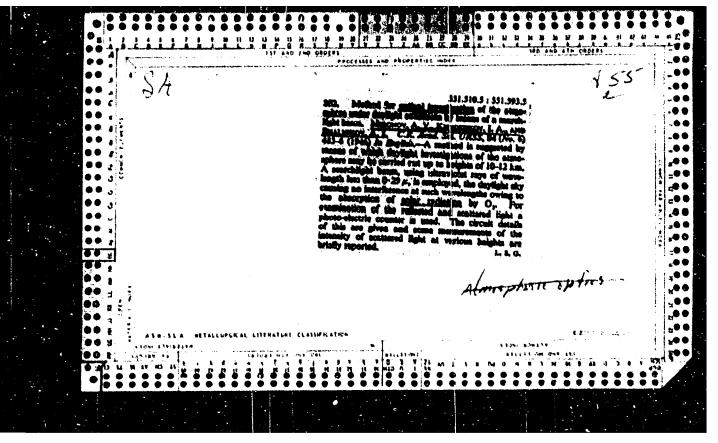
Light-Polarization

"Photographing the Tropopause in Polarized Light, " I. I. Romantsov, I. A. Khvostikov, Laboratory of Atmospheric Optics, Institute of Theoretical Geophysics, Academy of Sciences of the USSR, 3 pp

"Comptes Rendus (Doklady)" Vol LIII, No 8

A discussion is made of several investigations into the tropopause (the area between stratosphere and troposphere) which were performed by means of a powerful searchlight beam directed up 60 degree to the horizon and by a camera placed 7.6 km away. Four graphs are given, showing the dependence of brightness (degree of polarization) upon height in km above ground.





KHVOSTIKOV, I. A. (Prof.)

"About searchlight as a tool for investigation of upper atmosphere in dayl...ht," Znaniya Sila, Moscow (July 1947)

Geophysical institute

- 1. KHVOSTIKOV, I. A.
- 2. USSR (600)
- 4. Physics and Mathematics
- 7. Spectral Reflecting Capacity of Natural Formations, No. L. Krinov. (Press of Acad Sci USSR, 1947). Reviewed by I. A. Khwostikov, Sov. Kniga, No. 3, 1948.

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KHYOSTIKOVA, I.A. [translator]; DOBSON, G.M.B.; BREWER, A.W.; CWILONG, B.M., [authors].

Meteorology of lower atmospheric layers (From: Proc. Roy. Soc. A,185, 144-175, 1946; translated by I.A.Khvostikova). G.H.B.Dobson, A.W.Brewe B.M.Gwilong. Usp. fim. nauk 31 no.1:96-128 '47. (MERA 6:12) (Atmosphere) (Meteorology)

	KHVOSTIKOV, I. A.		FA 53T39
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